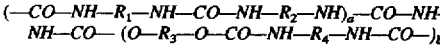
of molecular weight of the individual block HB is between about 250 and about 50,000 Daltons.

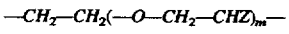
7. A hydrophilic coating composition for hydrophobic substrates according to claim 3 wherein the linking sequences L are either hydrophobic or hydrophilic chemical moieties having a number average of molecular weight lower than 25,000 Daltons.

8. A hydrophilic coating composition for hydrophobic substrates according to claim 3 wherein the said linking sequences L are chemical moieties having radicals selected from the group consisting of ester, ether, amide, urethane, urea, imide and imine radicals.

9. A hydrophilic coating composition for hydrophobic substrates according to claim 5 wherein the said hydrophobic segments HB are of the general formula

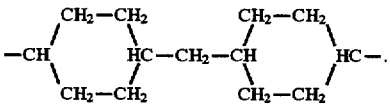


where a is a number between 1 and 15, b is a number between 0 and 10, where R_1, R_2 and R_4 are the same or different aliphatic, cycloaliphatic or aromatic hydrocarbon substituents; and where R_3 is an aliphatic substituent of ether having the formula



where m is a number between 0 and 3 and Z is a substituent selected from the group consisting of hydrogen; alkyl with 1 to 4 carbons; a halogen; and $—CH_2—COOH$.

10. A hydrophilic coating composition for hydrophobic substrates according to claim 9 wherein at least one of the said substituents R_1, R_2 and R_4 are of the formula



11. A hydrophilic coating composition for hydrophobic substrates according to claim 1 wherein said component B comprises a water-soluble polymer having polar radicals selected from the group consisting of hydroxyl, ether, carboxyl, amine, imine, amide, lactam, lactone, amidine, quaternary ammonium salt, sulfonic acid and sulphate radicals.

12. A hydrophilic coating composition for hydrophobic substrates according to claim 1 wherein the said water-soluble component B comprises a polymer selected from the group consisting of polyalkylene oxide, poly (vinylpyrrolidone), poly(vinyl methyl ether), poly(N-alkylacrylamides), poly(methacrylamide), poly(acrylic acid), poly(methacrylic acid), poly(ethyleneglycol), copolymers of poly(ethyleneoxide-propyleneoxide), poly (ethyleneoxide), copolymers of maleic acid, poly (vinylalcohol), poly(ethyleneimine), carboxymethylcellulose, polyvinylsulfonic acid, polystyrene sulfonic acid, hyaluronic acid, heparin, dextran, dextran sulphate and chondroitin sulphate.

13. A hydrophilic coating composition for hydrophobic substrates according to claim 1 wherein the said water-soluble component B comprises a water-soluble polymer composed from 100 to 20,000 monomer units.

14. A hydrophilic coating composition for hydrophobic substrates according to claim 1 wherein the said common solvent component C comprises a liquid selected from the group consisting of tetrahydrofuran, dioxane, dialkylether, acetone, methylethylketone, lower halogenated hydrocarbons C1–C6, lower aliphatic alcohols C1–C6, benzene, toluene, xylene, cyclohexanone, acetonitrile, alkylacetate, tetramethylene sulfone, dimethylsulfoxide, g-butyrolactone, phenols, formic acid and acetic acid.

15. A hydrophilic coating composition for hydrophobic substrates according to claim 1 wherein the said common solvent comprises between 0.25% and 15% of water.

16. A hydrophilic coating composition for hydrophobic substrates according to claim 1 wherein the said common solvent component C is an aqueous solution of a substance selected from the group consisting of sodium thiocyanate, potassium thiocyanate, calcium thiocyanate, zinc chloride, lithium bromide, magnesium perchlorate, phosphoric acid, nitric acid and sulfuric acid.

17. A hydrophilic coating composition for hydrophobic substrates according to claim 1 wherein the said common solvent component C constitutes more than 95% by weight.

18. A hydrophilic coating composition for hydrophobic substrates according to claim 1 comprising in addition to the components A, B and C also another component selected from the group consisting of a surfactant, a pigment, a dyestuff, an antibiotic, a disinfectant, a bactericide, a biocide, a UV absorber, a coagulant and a biologically active peptide or protein.

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